

# ISPT1012.TXT SEQUENCE LISTING

<110>	Bennett, Clarence Frank Freier, Suan M. Dobie, Kenneth W.	
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gag gac agc ccg agt cgc ttg gac cgc ggc cgg gag gac agc ctg ccc dlaws as part of lev as part of ly arg Glu as per Leu Pro 1240  aag ggc cac gtc atc tac gaa ggc aag aag ggc cac gtc ttg tcc tat lev gag ggc ggc ggc ggc ggc ggc ggc agg ggc cac gtc ttg tcc tat lev gag ggc ggc ggc ggc ggc ggc ggc ggc ggc	acg Thr	cca Pro	Ala	gac Asp	gtc	ctg Leu	tac Tyr	Lys	ggc Gly	acc	atc Ile	acc Thr	Arg	atc Ile	atc	ggc Gly	3870
aag ggc cac gtc atc tac gaa ggc aag aag ggc cac gtc ttg tcc tat Lys Gly His Val Ile Tyr Glu Gly Lys Lys Gly His Val Leu Ser Tyr 1255  1260  gag ggt ggc atg tct gtg acc cag tgc tcc aag gag gac ggc aga agc 4014 Glu Gly Gly Met Ser Val Thr Gln Cys Ser Lys Glu Asp Gly Arg Ser 1275  agc tca gga ccc ccc cat gag acg gcc ccc aag cgc acc tat gac Ser Ser Gly Pro Pro His Glu Thr Ala Ala Pro Lys Arg Thr Tyr Asp 1290  atg atg gag ggc cgc gtg ggc aag gcc atc tcc tca gcc agc acc tat gac 4062  Ser Ser Gly Pro Pro His Gly Arg Ala Ile Ser Ser Ala Ser Ile Glu 1305  ggt ctc atg ggc cgt gcc atc ccg ccg gag cga cac agc ccc cac ag 4158  Gly Leu Met Gly Gly Arg Ala Ile Pro Pro Glu Arg His Ser Pro His His 1320  ctc aaa gag cac cac atc ccg ggg tcc atc aca agc acc cac 4266  Leu Lys Glu Gln His His Ile Arg Gly Ser Ile Thr Gln Gly Ile Pro 1335  cgg tcc tac gtg gag ggc acg cac gag gac tac ctg cgg gag gcc aag Acc Arg Ser Tyr Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys 1355  ctc cta aag cgg gag ggc acg ccc ccc cca ccg ccc tca cac ggg acc acc acc acc acc acc acc a	gag Glu	Asp	agc Ser	ccg	agt Ser	cgc Arg	Leu	gac Asp	cgc	ggc Gly	cgg Arg	Glu	gac Asp	agc	ctg Leu	ccc Pro	3918
gag ggt ggc atg tct gtg acc cag tgc tcc aag gag gac ggc aga agc 4014 Glu Gly Gly Met Ser Val Thr Gln Cys Ser Lys Glu Asp Gly Arg Ser 1275  agc tca gga ccc ccc cat gag acg gcc gcc ccc aag cgc acc tat gac 4062 Ser Ser Gly Pro Pro His Glu Thr Ala Ala Pro Lys Arg Thr Tyr Asp 1290  atg atg gag ggc cgc gtg ggc aga gcc atc tcc tca gcc agc atc gaa 4110  Met Met Glu Gly Arg Val Gly Arg Ala Ile Ser Ser Ala Ser Ile Glu 1305  ggt ctc atg ggc cgt gcc atc ccg ccg gag cga cac agc ccc cac cac 4158 Gly Leu Met Gly Arg Ala Ile Pro Pro Glu Arg His Ser Pro His His 1320  ctc aaa gag cag cac cac atc cgc ggg tcc atc aca caa ggg atc cct 4206  Leu Lys Glu Gln His His Ile Arg Gly Ser Ile Thr Gln Gly Ile Pro 1335  cgg tcc tac gtg gag gac cag gag gac tac ctg cgg gag gac cag aga 4254  Arg Ser Tyr Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys 1370  ctc aaa gag cgg gag ggc acg ct ccg ccc cca cac agc ccc cac aga gag ccc ccc	Lys	ggc Gly	cac	gtc Val	atc Ile	Tyr	gaa Glu	ggc	aag Lys	aag Lys	Gly	cac His	gtc	ttg Leu	tcc Ser	Tyr	3966
agc tca gga ccc ccc cat gag acg gcc gcc ccc aag cgc acc tat gac ser Ser Gly Pro Pro His Glu Thr Ala Ala Pro Lys Arg Thr Tyr Asp 1290 1295 1300  atg atg gag ggc cgc gtg ggc aga gcc atc tcc tca gcc agc atc gaa 4110  Met Met Glu Gly Arg Val Gly Arg Ala Ile Ser Ser Ala Ser Ile Glu 1305 1310 1315  ggt ctc atg ggc cgt gcc atc ccg ccg gag cga cac agc ccc cac cac 4158  Gly Leu Met Gly Arg Ala Ile Pro Pro Glu Arg His Ser Pro His His 1320 1325 1330  ctc aaa gag cag cac cac atc cgc ggg tcc aca cac aag ggg atc cct Leu Lys Glu Gln His His Ile Arg Gly Ser Ile Thr Gln Gly Ile Pro 1335 1340 1345 1350  cgg tcc tac gtg gag gca cag gag gac tac ctg cgt cgg gag gcc aag 4254  Arg Ser Tyr Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys 1355  ctc cta aag cgg gag ggc acg cct ccg ccc cca ccg ccc tca cgg gac 4302  Leu Leu Lys Arg Glu Gly Thr Pro Pro Pro Pro Pro Pro Ser Arg Asp 1370 1380  ctg acc gag gcc tac aag acg cag gcc ctg ggc ccc ctg aag ctg aag 4350  Leu Thr Glu Ala Tyr Lys Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys 1385 1390  ccg gcc cat gag ggc ctg gtg gcc acg gtg aag gag gcg ggc cgc tcc 4398  Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser	gag	ggt	ggc Gly	atg Met	Ser	gtg Val	acc	cag Gln	tgc Cys	ser	aag Lys	qaq	gac Asp	ggc Gly	Arg	agc Ser	4014
atg atg gag ggc cgc gtg ggc aga gcc atc tcc tca gcc agc atc gaa  Met Met Glu Gly Arg Val Gly Arg Ala Ile Ser Ser Ala Ser Ile Glu  1305  ggt ctc atg ggc cgt gcc atc ccg ccg gag cga cac agc ccc cac cac  Gly Leu Met Gly Arg Ala Ile Pro Pro Glu Arg His Ser Pro His His  1320  1325  Ctc aaa gag cag cac cac atc cgc ggg tcc atc aca caa ggg atc cct  Leu Lys Glu Gln His His Ile Arg Gly Ser Ile Thr Gln Gly Ile Pro  1335  Cgg tcc tac gtg gag gac cag gag gac tac ctg cgg gag gcc aag  Arg Ser Tyr Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys  1355  Ctc cta aag cgg gag ggc acg cct ccg ccc cca ccg ccc tca cgg gac  Arg Ser Tyr Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys  1355  Ctc cta aag cgg gag ggc acg cct ccg ccc cca ccg ccc tca cgg gac  Leu Leu Lys Arg Glu Gly Thr Pro Pro Pro Pro Pro Pro Ser Arg Asp  1370  Ctg acc gag gcc tac aag acg cag gcc ctg ggc ccc ctg aag ctg aag  Leu Thr Glu Ala Tyr Lys Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys  1385  Ccg gcc cat gag ggc ctg gtg gcc acg gtg aag gag gcg ggc cgc tcc  4398  Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser	agc Ser	tca Ser	gga Gly	Pro	ccc Pro	cat	gag Glu	acg Thr	Ala	gcc Ala	ccc	aag Lys	cgc Arg	Thr	tat Tyr	gac	4062
ggt ctc atg ggc cgt gcc atc ccg ccg gag cga cac agc ccc cac cac Gly Leu Met Gly Arg Ala Ile Pro Pro Glu Arg His Ser Pro His His 1320  Ctc aaa gag cag cac cac atc cgc ggg tcc atc aca caa ggg atc cct 4206 Leu Lys Glu Gln His His Ile Arg Gly Ser Ile Thr Gln Gly Ile Pro 1335  Cgg tcc tac gtg gag gca cag gag gac tac ctg cgt cgg gag gcc aag Arg Ser Tyr Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys 1355  Ctc cta aag cgg gag ggc acg cct ccg ccc cca ccg ccc tca cgg gac 4302 Leu Leu Lys Arg Glu Gly Thr Pro Pro Pro Pro Pro Pro Ser Arg Asp 1370  Ctg acc gag gcc tac aag acg cag gcc ctg ggc ccc ctg aag ctg aag 4350 Leu Thr Glu Ala Tyr Lys Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys 1385  Ccg gcc cat gag ggc ctg gtg gcc acg gtg aag gag gcg ggc cgc tcc 4398 Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser	atg Met	atg Met	Glu	ggc Gly	cgc	gtg Va i	ggc Gly	Arg	gcc Ala	atc	tcc Ser	tca Ser	Ala	agc Ser	atc	gaa Glu	4110
ctc aaa gag cag cac cac atc cgc ggg tcc atc aca caa ggg atc cct Leu Lys Glu Gln His His Ile Arg Gly Ser Ile Thr Gln Gly Ile Pro 1335  cgg tcc tac gtg gag gca cag gag gac tac ctg cgt cgg gag gcc aag Arg Ser Tyr Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys 1355  ctc cta aag cgg gag ggc acg cct ccg ccc cca ccg ccc tca cgg gac Leu Leu Lys Arg Glu Gly Thr Pro Pro Pro Pro Pro Pro Ser Arg Asp 1370  ctg acc gag gcc tac aag acg cag gcc ctg ggc ccc ctg aag ctg aag Leu Thr Glu Ala Tyr Lys Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys 1385  ccg gcc cat gag ggc ctg gtg gcc acg gtg aag gag gcg ggc cgc tcc 4398  Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser	Gly	Leu	atg Met	ggc	cgt Arg	gcc Ala	Ile	ccg Pro	ccg	gag Glu	cga Arg	His	agc Ser	ccc	cac His	cac His	4158
cgg tcc tac gtg gag gca cag gag gac tac ctg cgt cgg gag gcc aag 4254 Arg Ser Tyr Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys 1365 1360 1365  ctc cta aag cgg gag ggc acg cct ccg ccc cca ccg ccc tca cgg gac 4302 Leu Leu Lys Arg Glu Gly Thr Pro Pro Pro Pro Pro Pro Ser Arg Asp 1370 1375 1380  ctg acc gag gcc tac aag acg cag gcc ctg ggc ccc ctg aag ctg aag 4350 Leu Thr Glu Ala Tyr Lys Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys 1385  ccg gcc cat gag ggc ctg gtg gcc acg gtg aag gag gcg ggc cgc tcc 4398 Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser	ctc Leu	aaa Lys	gag	cag Gln	cac His	His	atc Ile	cgc	ggg Gly	tcc Ser	Ile	aca Thr	caa	ggg Gly	atc Ile	Pro	4206
Ctc cta aag cgg gag ggc acg cct ccg ccc cca ccg ccc tca cgg gac Leu Leu Lys Arg Glu Gly Thr Pro Pro Pro Pro Pro Pro Ser Arg Asp 1370  Ctg acc gag gcc tac aag acg cag gcc ctg ggc ccc ctg aag ctg aag Leu Thr Glu Ala Tyr Lys Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys 1385  Ccg gcc cat gag ggc ctg gtg gcc acg gtg aag gag gcg ggc cgc tcc Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser  4302  4302  4302  4350  4350  4350	cgg	tcc	tac Tyr	gtg Val	Glu	gca Ala	caq	gag Glu	Asp	Tyr	ctg Leu	cat	cgg Arg	gag Glu	Ala	aag Lys	4254
ctg acc gag gcc tac aag acg cag gcc ctg ggc ccc ctg aag ctg aag 4350 Leu Thr Glu Ala Tyr Lys Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys 1385 1390 1395 Ccg gcc cat gag ggc ctg gtg gcc acg gtg aag gag gcg ggc cgc tcc Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser	ctc Leu	cta Leu	aag Lys	Arg	gag Glu	ggc	acg Thr	cct Pro	ccg Pro	ccc Pro	cca	ccg Pro	ccc Pro	Ser	cgg Arg	gac	4302
ccg gcc cat gag ggc ctg gtg gcc acg gtg aag gag gcg ggc cgc tcc 4398 Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser	ctg Leu	acc Thr	Glu	gcc Ala	tac	aag Lys	acg Thr	Gln	gcc Ala	cta	ggc Gly	ccc Pro	Leu	aag Lys	cta	aag Lys	4350
	ccg Pro	gcc Ala	cat	qaq	ggc Gly	ctg Leu	gtg Val	acc	aca	Va I	Lys	gag Glu	aca	aac	cgc Arg	tcc Ser	4398
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atc Ile 141	_His	gag	atc Ile	ccg Pro	cgc Arg 142	Glu	gag	ctg Leu	cgg Arg	cac His 142	_Thr	ccc	gag Glu	ctg Leu	ccc Pro 1430	4446
ctg	gcc	ccg Pro	cgg Arg	ccg Pro 143	ctc Leu	aag	gag Glu	ggc Gly	tcc Ser 144	atc Ile	acg	cag Gln	ggc Gly	acc Thr 144	ccg Pro	4494
ctc Leu	aag Lys	tac Tyr	gac Asp 145	acc Thr	ggc Gly	gcg Ala	tcc Ser	acc Thr 145	act Thr	ggc	tcc ser	aaa Lys	aag Lys 146	cac His	gac	4542
gta Val	cgc Arg	tcc Ser 146	ctc Leu	atc	ggc Gly	agc Ser	ccc Pro 147	ggc Gly	cgg	acg Thr	ttc Phe	cca Pro 147	CCC Pro	gtg	cac His	4590
ccg Pro	ctg Leu 1480	gat Asp	gtg	atg Met	gcc Ala	gac Asp 1485	gcc Ala	cgg	gca Ala	ctg Leu	gaa Glu 149	cgt Arg	gcc	tgc Cys	tac Tyr	4638
gag Glu 149	gag Glu	agc	ctg Leu	aag Lys	agc Ser 150	cgg Arg	cca	ggg Gly	acc Thr	gcc Ala 150	agc Ser	agc	tcg Ser	ggg Gly	ggc Gly 1510	4686
		gcg Ala	cgc Arg	ggc Gly 151	gcc Ala		gtc Val	att Ile	gtg Val 1520	cct Pro		ctg Leu	ggt Gly	aag Lys 152	ccg Pro	4734
cgg Arg	cag Gln	agc Ser	ccc Pro 1530	ctg Leu	acc Thr	tat Tyr	gag Glu	gac Asp 153	cac His	ggg	gca Ala	ccc Pro	ttt Phe 154	gcc Ala	ggc	4782
cac His	ctc Leu	cca Pro 154	cga Arg	ggt	tcg Ser	ccc Pro	gtg Val 1550	acc Thr	atg	cgg Arg	gag Glu	ccc Pro 155	acg Thr	ccq	cgc Arg	4830
ctg Leu	cag Gln 1560	Glu	ggc Gly	agc Ser	ctt Leu	tcg Ser 1565	tcc Ser	agc	aag Lys	gca Ala	tcc Ser 1570	cag Gln	gac	cga Arg	aag Lys	4878
ctg Leu 1579	acg Thr	tcg	acg Thr	cct Pro	cgt Arg 1580	gag Glu	atc	gcc Ala	aag Lys	tcc Ser 158	ccg Pro	cac	agc Ser	acc Thr	gtg Val 1590	4926
ccc Pro	gag Glu	cac His	cac His	cca Pro 159	cac His	ccc	atc Ile	tcg Ser	ccc Pro 1600	tat Tyr	gag	cac His	ctg Leu	ctt Leu 160	cgg Arg	4974
ggc Gly	gtg Val	agt Ser	ggc Gly 1610	٧a٦	gac Asp	ctg Leu	tat Tyr	cgc Arg 161	Ser	cac His	atc Ile	ccc Pro	ctg Leu 1620	gcc Ala	ttc	5022
gac Asp	ccc Pro	acc Thr 1625	Ser	ata Ile	ccc Pro	cgc Arg	ggc Gly 1630	Ile	cct Pro	ctg Leu	gac Asp	gca Ala 163	Ala	gct Ala	gcc Ala	5070
tac Tyr	tac Tyr 1640	Leu	ccc Pro	cga Arg	cac His	ctg Leu 1645	Ala	ccc Pro	aac Asn	ccc Pro	acc Thr 1650	Tyr	ccg Pro	cac His	ctg Leu	5118
tac Tyr 1655	Pro	ccc Pro	tac Tyr	ctc Leu	atc Ile 1660	Arg	ggc Gly	tac Tyr	ccc Pro	gac Asp 1665	acg Thr	qcq	gcg Ala	ctg Leu	gag Glu 1670	5166
aac Asn	cgg Arg	cag Gln	acc Thr	atc Ile 1675	atc Ile	aat Asn	gac Asp	tac Tyr	atc Ile 1680	acc Thr	tcq	cag Gln	cag Gln	atg Met 1685	His	5214
cac His	aac Asn	acg Thr	gcc Ala 1690	Thr	gcc Ala	atg Met	gcc Ala	cag Gln 1699	Arg	gct Ala	gat Asp	atg Met	ctg Leu 1700	Arg	ggc Gly	5262
Leu	Ser	Pro 1705	Arg	Glu	tcc Ser	Ser	Leu 1710	Ala )	Leu	Asn	Tyr	Ala 1715	Ala	Gly	Pro	5310
Arg	Gly 1720	Ile )	Ile	Asp	ctg Leu	Ser 1725	Gln	val	Pro	His	Leu 1730	Pro	Val	Leu	va1	5358
Pro 1735	Pro	Thr	Pro	Gly	acc Thr 1740	Pro )	Ala	Thr	Ala	Met 1745	Asp	Arg	Leu	Ala	Tyr 1750	5406
Leu	Pro	Thr	Ala	Pro 1755		Pro	Phe	Ser	Ser 1760	Arg	His	Ser	ser	Ser 1765	Pro	5454
ctc	tcc	cca	gga	ggt	cca	aca	cac	ttg		aaa ge 6	cca	acc	acc			5502

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	Ser		1770	) [				177	5	-			178	0		
tcg Ser	tcc Ser	gag Glu 178	_Arg	gag Glu	cga Arg	gac Asp	cgg Arg 179	Asp	cga Arg	gag Glu	cgg Arg	gac Asp 1795	_Arg	gat Asp	cgg Arg	5550
gag Glu	cgg Arg 180	Glu	aag Lys	tcc Ser	atc Ile	ctc Leu 180	Thr	tcc Ser	acc Thr	acg Thr	acg Thr 1810	٧a٦	gag Glu	cac His	gca Ala	5598
ccc Pro 181	atc Ile	tgg	aga Arg	cct Pro	ggt Gly 1820	aca Thr	gag	cag Gln	agc Ser	agc Ser 182	ggc Gly	agc	agc Ser	ggc Gly	agc Ser 1830	5646
agc	ggc Gly	ggg Gly	ggt Gly	ggg Gly 183	ggc Gly	agc	agc Ser	agc Ser	cgc Arg 1840	CCC Pro	gcc	tcc Ser	cac His	tcc Ser 184	cat His	5694
gcc Ala	cac His	cag Gln	cac His 1850	tcg Ser	ccc	atc Ile	tcc Ser	cct Pro 185	cgg Arg	acc	cag Gln	gat Asp	gcc Ala 1860	ctc Leu	cag	5742
cag Gln	aga Arg	ccc Pro 186	agt Ser	ata	ctt Leu	cac His	aac Asn 1870	aca Thr	aac	atg Met	aag Lys	ggt Gly 1875	atc Ile	atc	acc Thr	5790
gct Ala	gtg Val 1880	gag Glu	ссс	agc Ser	aag Lys	ccc Pro 1885	acg Thr	gtc	ctg Leu	agg Arg	tcc Ser 1890	acc Thr	tcc	acc Thr	tcc Ser	5838
tca Ser 189	ccc Pro	gtt	cgc Arg	cca Pro	gct Ala 1900	gcc Ala	aca	ttc Phe	cca Pro	cct Pro 190	gcc Ala	acc	cac His	tgc Cys	cca Pro 1910	5886
ctg	ggc Gly	ggc Gly	acc Thr	ctc Leu 191	gat Asp	ggg	gtc Val	tac Tyr	cct Pro 1920	acc Thr	ctc	atg Met	gag Glu	ccc Pro 1925	gtc Val	5934
ttg Leu	ctg Leu	ccc Pro	aag Lys 1930	gag Glu	gcc	ccc Pro	cgg Arg	gtc Val 193	gcc Ala	cqq	cca Pro	gag Glu	cgg Arg 1940	ccc Pro	cga	5982
gca Ala	gac Asp	acc Thr 1945	Gly	cat His	gcc Ala	ttc Phe	ctc Leu 1950	Ala	aag Lys	ccc Pro	cca Pro	gcc Ala 1955	Arg	tcc Ser	ggg Gly	6030
ctg Leu	gag Glu 1960	Pro	gcc Ala	tcc Ser	tcc Ser	ccc Pro 1965	Ser	aag Lys	ggc Gly	tcg Ser	gag Glu 1970	ccc Pro	cqq	ccc Pro	cta Leu	6078
gtg Val 197	cct Pro 5	cct Pro	gtc Val	tct Ser	ggc Gly 1980	His	gcc Ala	acc Thr	atc Ile	gcc Ala 1985	Arg	acc Thr	cct Pro	gcg Ala	aag Lys 1990	6126
aac Asn	ctc Leu	gca Ala	cct Pro	cac His 1995	His	gcc Ala	agc Ser	ccg Pro	gac Asp 2000	Pro	ccg Pro	gcg Ala	cca Pro	cct Pro 2005	Ala	6174
tcg Ser	gcc Ala	tcg Ser	gac Asp 2010	Pro	cac His	cgg Arg	Glu	aag Lys 2015	Thr	caa Gln	agt Ser	aaa Lys	ccc Pro 2020	Phe	tcc Ser	6222
atc Ile	cag Gln	gaa Glu 2025	Leu	gaa Glu	ctc Leu	cgt Arg	tct	ctg Leu	aat	tac Tyr	cac His	ggc Gly 2035	agc Ser	agc	tac Tyr	6270
agc Ser	CCC Pro 2040	Glu	ggg Gly	gtg Val	gag Glu	ccc Pro 2045	Val	agc Ser	cct Pro	gtg Val	agc Ser 2050	tca Ser	ccc	agt Ser	ctg Leu	6318
acc Thr 205	cac His	gac Asp	aag Lys	ggg Gly	ctc Leu 2060	Pro	aag Lys	cac His	ctg Leu	gaa Glu 2065	Glu	ctc Leu	gac Asp	aag Lys	agc Ser 2070	6366
cac His	ctg Leu	gag Glu	ggg Gly	gag Glu 2075	Leu	cgg Arg	CCC Pro	aag Lys	cag Gln 2080	Pro	ggc Gly	ccc Pro	gtg Val	aag Lys 2085	Leu	6414
ggc Gly	ggg Gly	gag Glu	gcc Ala 2090	Ala	cac His	ctc Leu	cca Pro	cac His 2095	ctg Leu	cgg	ccg Pro	ctg Leu	cct Pro 2100	gag Glu	agc	6462
cag Gln	ccc Pro	tcg Ser 2105	tcc ser	agc	ccg Pro	ctg Leu	ctc Leu 2110	cag Gln	acc	gcc Ala	cca Pro	ggg Gly 2115	gtc val	aaa	ggt Gly	6510
cac His	cag Gln 2120	cgg Arg	gtg	gtc Val	acc Thr	ctg Leu 2125	gcc Ala	caq	cac His	atc Ile	agt Ser 2130	gag Glu	atc	atc Ile	aca Thr	6558
									Da	ne 7						

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cag gac tac Gln Asp Tyr 2135	acc cgg cac Thr Arg His 214	His Pro	cag cag Gln Gln	ctc agc Leu Ser 2145	gca ccc Ala Pro	ctg ccc Leu Pro 2150	6606
gcc ccc ctc Ala Pro Leu	tac tcc ttc Tyr Ser Phe 2155	cct ggg Pro Gly	gcc agc Ala Ser 216	Cys Pro	gtc ctg Val Leu	gac ctc Asp Leu 2165	6654
	ccc agt gad Pro Ser Asp 2170		ctc ccg	ccc ccg		Gly Ala	6702
ccg gcc cgt Pro Ala Arg 218	ggc tcc ccc Gly Ser Pro	cac agc His Ser 219	gaa ggg Glu Gly	ggc aag Gly Lys			6750
	acg tcg gto Thr Ser Val			gag gac Glu Asp 2210	ggt att Gly Ile	gaa cct Glu Pro	6798
gtg tcc cca	ccg gag ggc Pro Glu Gly 222	atg acg Met Thr	gag cca Glu Pro	ggg cac	tcc cgg	agt gct Ser Ala 2230	6846
gtg tac ccg	ctg ctg tac Leu Leu Tyr 2235	cgg gat	ggg gaa Gly Glu 2240	cag acg Gln Thr	gag ccc Glu Pro	agc agg	6894
atg ggc tcc Met Gly Ser	aag tct cca Lys Ser Pro 2250	ggc aac Gly Asn	acc agc Thr Ser 2255	cag ccg Gln Pro	cca gcc Pro Ala 226	Phe Phe	6942
agc aag ctg Ser Lys Leu 226	acc gag ago Thr Glu Ser 5	aac tcc Asn Ser 2270	Ala Met	gtc aag Val Lys	tcc aag Ser Lys 2275	aag caa Lys Gln	6990
gag atc aac Glu Ile Asn 2280	aag aag ctg Lys Lys Leu	aac acc Asn Thr 2285	cac aac His Asn	cgg aat Arg Asn 2290	Glu Pro	gaa tac Glu Tyr	7038
	cag cct ggg Gln Pro Gly 230	Thr Glu					7086
gga aca ggc Gly Thr Gly	ctt atg acc Leu Met Thr 2315	tat aga Tyr Arg	agc cag Ser Gln 2320		cag gaa Gln Glu	cat gcc His Ala 2325	7134
agc acc aac Ser Thr Asn	atg ggg ctg Met Gly Leu 2330	gag gcc Glu Ala	ata att Ile Ile 2335	aga aag Arg Lys	gca ctc Ala Leu 234	Met Gly	7182
Lys Tyr Asp 234	•	Glu Ser 2350	Pro Pro )	Leu Ser	Ala Asn 2355	Āla Phe	7230
Asn Pro Leu 2360	aat gcc agt Asn Ala Ser	Āla Sēr 2365	Leu Pro	Āla Āla 2370	Met Pro )	Ile Thr	7278
Ala Ala Asp 2375	gga cgg agt Gly Arg Ser 238	Asp His O	Thr Leu	Thr Ser 2385	Pro Gly	Gly Gly 2390	7326
Gly Lys Ala	aag gtc tct Lys Val Ser 2395	Gly Arg	Pro Ser 2400	Ser Arg )	Lys Ala	Lys Ser 2405	7374
Pro Ala Pro	ggc ctg gca Gly Leu Ala 2410	Ser Gly	Asp Arg 2415	Pro Pro	Ser Val 242	Ser Ser O	7422
Val His Ser 2425		Cys Asn 2430	Arg Arg	Thr Pro	Leu Thr 2435	Asn Arg	7470
Val Trp Glu 2440	gac agg ccc Asp Arg Pro	Ser Ser 2445	Ala Gly	Ser Thr 2450	Pro Phe	Pro Tyr	7518
ASN Pro Leu 2455	246	Leu Gin O	Ala Gly	Val Met 2465	Ala Ser	Pro Pro 2470	7566
cca ccg ggc Pro Pro Gly	Leu Pro Ala 2475	Gly Ser	Gly Pro 2480	Leu Ala	Gly Pro	His His 2485	7614
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ccc cgc tac ccg ccc cac agc ctt tcc tac cca gtg cag atc gcc cgg
Pro Arg Tyr Pro Pro His Ser Leu Ser Tyr Pro Val Gln Ile Ala Arg
                                                                                                        97
acg cac acg gac gtc ggg ctc ctg gag tac cag cac cac tcc cgc gac
Thr His Thr Asp Val Gly Leu Leu Glu Tyr Gln His His Ser Arg Asp
                                                                                                        145
                                                                           45
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tat gcc tcc cac ctg tcg ccg ggc tcc atc atc cag ccc cag cgg cgg
Tyr Ala Ser His Leu Ser Pro Gly Ser Ile Ile Gln Pro Gln Arg Arg
                                                                                                        193
                                                                     60
agg ccc tcc ctg ctg tct gag ttc cag ccc ggg aat gaa cgg tcc cag
Arg Pro Ser Leu Leu Ser Glu Phe Gln Pro Gly Asn Glu Arg Ser Gln
                                                                                                        241
gag ctc cac ctg cgg cca gag tcc cac tca tac ctg ccc gag ctg ggg
Glu Leu His Leu Arg Pro Glu Ser His Ser Tyr Leu Pro Glu Leu Gly
                                                                                                        289
                         85
                                                         90
                                                                                         95
aag tca gag atg gag ttc att gaa agc aag cgc cct cgg cta gag ctg
Lys Ser Glu Met Glu Phe Ile Glu Ser Lys Arg Pro Arg Leu Glu Leu
                                                                                                        337
                  100
                                                  105
                                                                                 110
ctg cct gac ccc ctg ctg cga ccg tca ccc ctg ctg gcc acg ggc cag
Leu Pro Asp Pro Leu Leu Arg Pro Ser Pro Leu Leu Ala Thr Gly Gln
                                                                                                        385
            115
                                           120
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cct gcg gga tct gaa gac ctc acc aag gac cgt agc ctg acg ggc aag
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Ser					Ile	tac Tyr				Arg					Āļa	721
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tac Tyr	aac Asn	cag Gln	Pro	245 tcc Ser	gac Asp	acc Thr	cgg Arg	Gln	250 tat Tyr	cat His	gag Glu	aac Asn	Ile	255 aaa Lys	ata ` Ile	817
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Leu	290 atg Met	gag Glu	gcc Ala	ttg Leu	Glu	295 aaa Lys	aag Lys	gtg Val	gag Glu	Arg	300 atc Ile	gaa Glu	aac Asn	aac Asn	Pro	961
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ctg Leu 385	gag	aag Lys	cag Gln	atg Met	cgc Arg 390	cag Gln	ctg Leu	gcc Ala	gtg Val	atc Ile 395	cca	ccc Pro	atg Met	ctg Leu	tac Tyr 400	1201
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1

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ccc Pro	cgc Arg	agc Ser 515	agc Ser	cag Gln	gag Glu	gag Glu	aaa Lys 520	gat	gag Glu	aag Lys	gag Glu	aag Lys 525	gaa	aag Lys	gag Glu	1585
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ctc Leu 545	ctc Leu	aag Lys	gag Glu	aag Lys	aca Thr 550	gac Asp	gac Asp	acc Thr	tca Ser	ggg Gly 555	gag Glu	gac Asp	aac Asn	gac Asp	gag Glu 560	1681
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705	gag Glu				710					715					720	2161
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					aag Lys											2833
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Leu	Asp	Leu	Lys	G1n 965	ctg Leu	Lys	Gln	Arg	Ala 970	Ala	Ala	Ile	Pro	Pro 975	Ile	2929
Gln	Val	Thr	Lys 980	val	cat His	Glu	Pro	Pro 985	Arg	Glu	Āsp	Āla	Ala 990	Pro	Thr	2977
Lys	Pro	Ala 995	Pro	Pro	gcc Ala	Pro	Pro 1000	Pro )	Pro	Gln	Asn	Leu 100	Gln 5	Pro	Ğlü	3025
Ser	Asp 101(	Ala )	Pro	Gln	cag Gln	Pro 1015	Gly 5	Ser	Ser	Pro	Arg 1020	Gly )	Lys	Ser	Arg	3073
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Lys	Leu	Pro	Gly	Asp 104		Pro	Cys	Trp	Thr 1050	Ser )	Ğly	Leu	Pro	Phe 105!	Pro 5	3169
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His	Asp 1090	Thr )	Ala	Arg	ccc Pro	Val 1095	Leu	Pro	Arg	Pro	Pro 1100	Thr )	Ile	Ser	Asn	3313
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_		_		_		_				1012.		_		•		
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Pro Ile Trp Arg Pro Gly Thr Glu Gln Ser Ser Gly Ser Ser Gly Ser 1825 1830 1835 1840  agc ggc ggg ggt ggg ggc agc agc agc ccc ccc cac tcc cac tcc cac ser Gly	5569
Ser Gly Gly Gly Gly Ser Ser Ser Arg Pro Ala Ser His Ser His 1850 1855  gcc cac cag cac tcg ccc atc tcc cct cgg acc cag gat gcc ctc cag	5617
Ála His Gln His Ser Pro Ile Ser Pro Arg Thr Gln Ásp Ála Leu Gln 1860 1865 1870 cag aga ccc agt gtg ctt cac aac aca ggc atg aag ggt atc acc	5665
Gln Arg Pro Ser Val Leu His Asn Thr Gly Met Lys Gly Ile Ile Thr 1875 1880 1885 gct gtg gag ccc agc aag ccc acg gtc ctg agg tcc acc tcc acc tcc	5713
Ala Val Glu Pro Ser Lys Pro Thr Val Leu Arg Ser Thr Ser Thr Ser 1890 1895 1900  tca ccc gtt cgc cca gct gcc aca ttc cca cct gcc acc tac tgc cca	5761
Ser Pro Val Arg Pro Ala Ala Thr Phe Pro Pro Ala Thr His Cys Pro 1905 1910 1915 1920 ctg ggc ggc acc ctc gat ggg gtc tac cct acc ctc atg gag ccc gtc	5809
Leu Gly Gly Thr Leu Asp Gly Val Tyr Pro Thr Leu Met Glu Pro Val 1925 1930 1935	
ttg ctg ccc aag gag gcc ccc cgg gtc gcc cgg cca gag cgg ccc cga Leu Leu Pro Lys Glu Ala Pro Arg Val Ala Arg Pro Glu Arg Pro Arg Page 15	5857

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gca Ala	gac Asp	acc Thr 195	ggc Gly	cat	gcc Ala	ttc Phe	ctc Leu 196	gcc Ala	aag	ccc Pro	cca Pro	gcc Ala 196	cgc Arg	tcc	ggg Gly	5905
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gtg Val 1985	cct Pro	cct	gtc Val	tct Ser	ggc Gly 199	cac His	gcc	acc Thr	atc Ile	gcc Ala 199	cgc Arg	acc	cct Pro	gcg Ala	aag Lys 2000	6001
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			gac Asp 2020	ccg Pro	cac				act Thr	caa				ttt Phe	tcc	6097
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agc Ser	CCC Pro 2050	Glu	ggg Gly	gtg Val	gag Glu	ccc Pro 205	٧a٦	agc Ser	cct Pro	gtg Val	agc Ser 206	Ser	ccc Pro	agt Ser	ctg Leu	6193
acc Thr 2065	His	gac Asp	aag Lys	ggg Gly	ctc Leu 2070	Pro	aag Lys	cac His	ctg Leu	gaa Glu 2075	_Glu	ctc Leu	gac Asp	aag Lys	agc Ser 2080	6241
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